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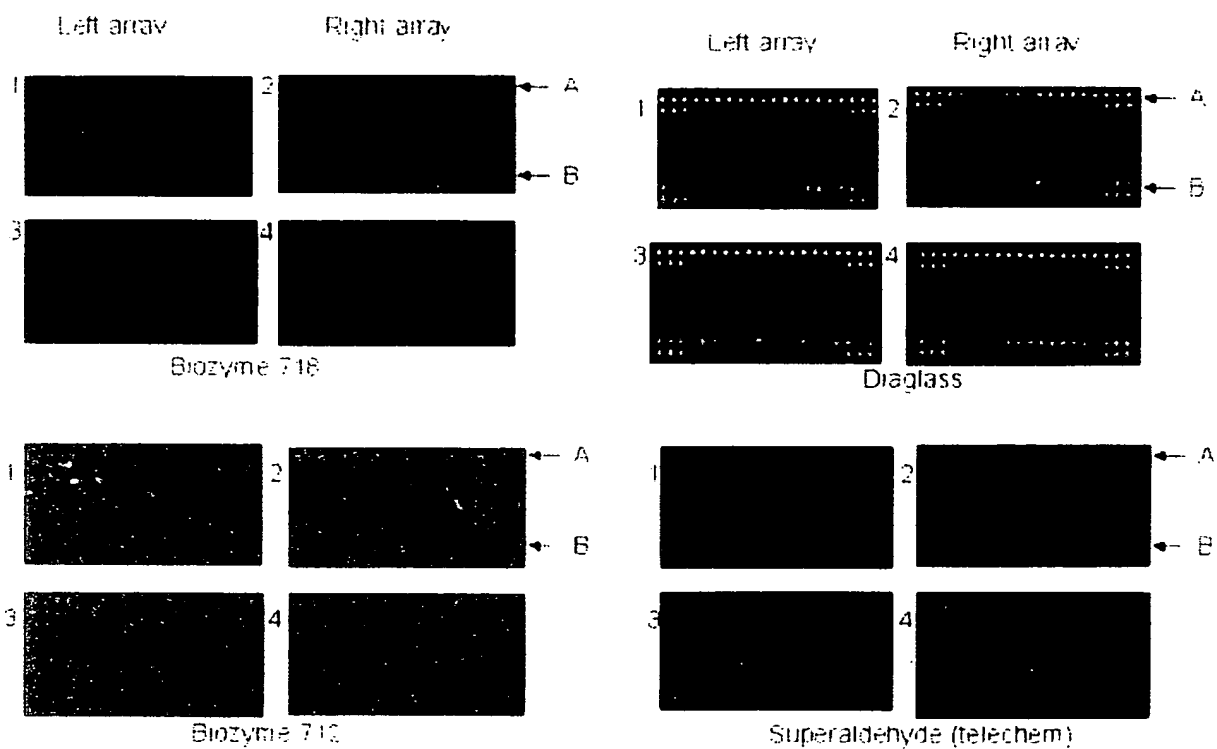


Figure 1A. Comparison of the hybridization (A) and fixation (B) yield on different aldehyde commercial slides

Spotting of CMV-NHC 300 nM (A) or CMV-NHC 300 nM biotinylated (B)

Hybridization with CMV biotinylated - Indirect detection by Antibody anti-biotin-cy3



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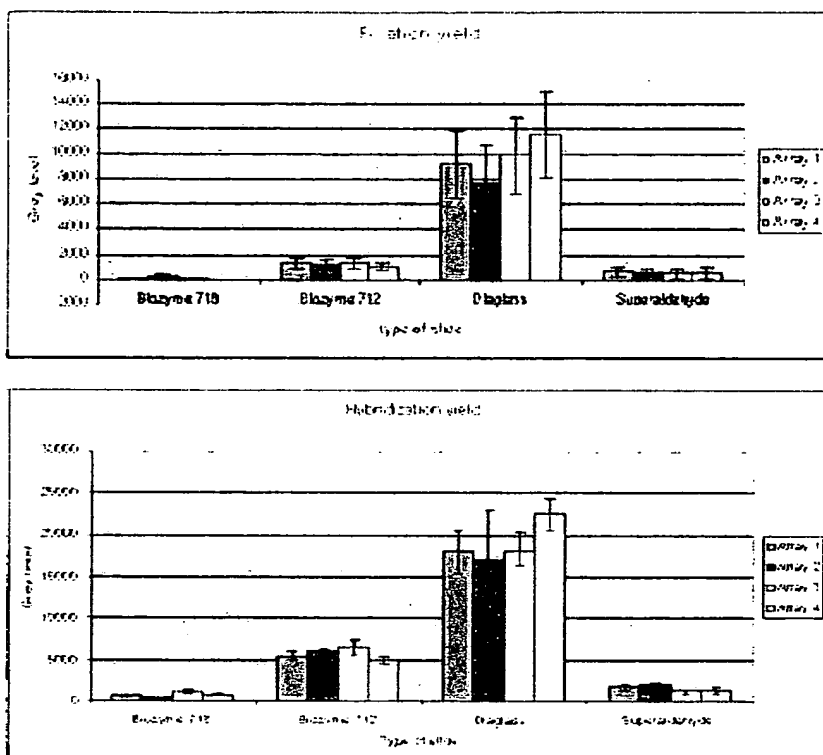


Figure 1B. Quantification data from figure 1A



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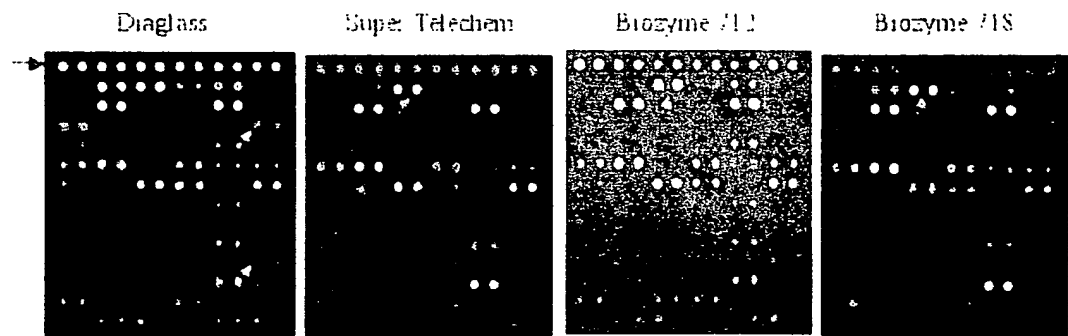


Figure 2. Comparison of a gene expression experiment on different aldehyde commercial slides

Spotting of a Rat hepatoChips microarray on different slides. Hybridization of RT product from 0.5 μ g mRNA. Indirect detection by Antibody anti-biotin-cy3

Conclusions:

- Higher background on Corning, SuperTeleChem and BioZym 712
- The lowest background is on the Diaglass
- Binding capacity (via Fos Detection Kit) is higher on Diaglass
- Only highly expressed genes present an acceptable signal (above background)
- Only on diaglass, low expressed genes are detected



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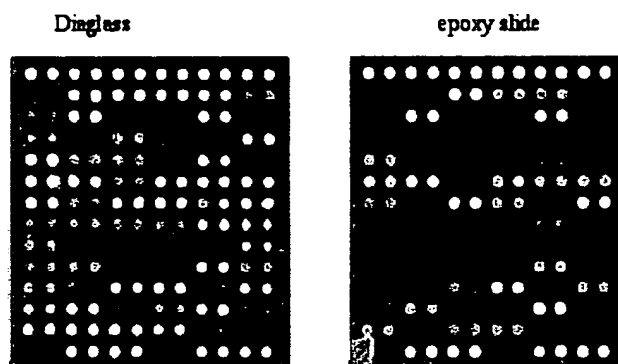


Figure 3. Comparison of a gene expression experiment on aldehyde (diaglass) and epoxy slides

Spotting of a Rat hepatoChips microarray on different slides. Hybridization of RT product from 0.5 μ g mRNA. Indirect detection by Antibody anti-biotin-cy3.

Conclusions: Low expressed genes are only detected on diaglass slides.



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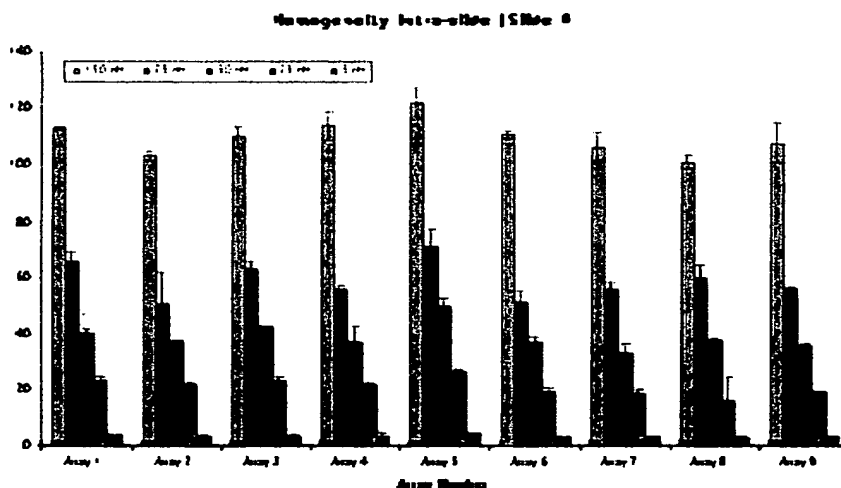


Figure 4. Intra-batch Variability

Comparisons of the efficiency of DNA capture probe binding on different locations of an activated glass slide according to the invention. Biotinylated DNA ended by an amino-group were spotted at 5 concentrations (5, 25, 50, 75, 150 nM) as 9 arrays in different locations of an activated microscope glass slide. Cy3-labeled streptavidin was used for detection.